

Figure 1

Carbon overcoat
Co-alloy magnetic layer
Intermediate layer
Underlayer
Seedlayer
Substrate

T03263 06949660

Figure 2

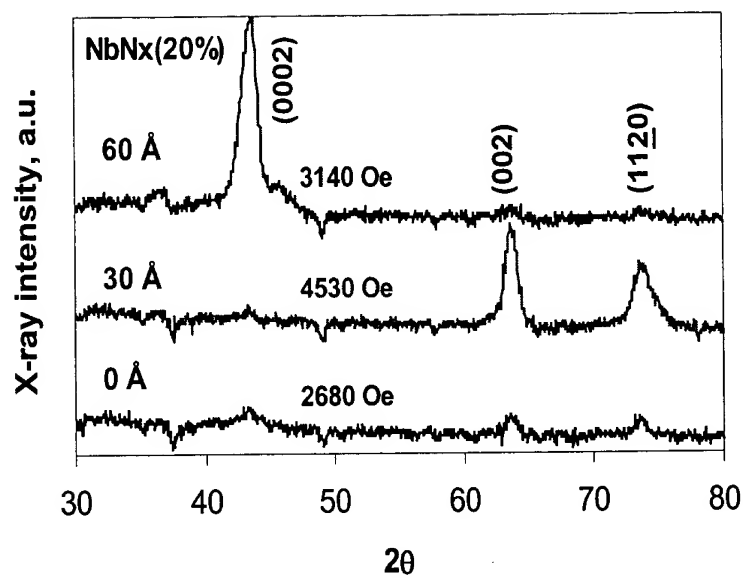


Figure 3

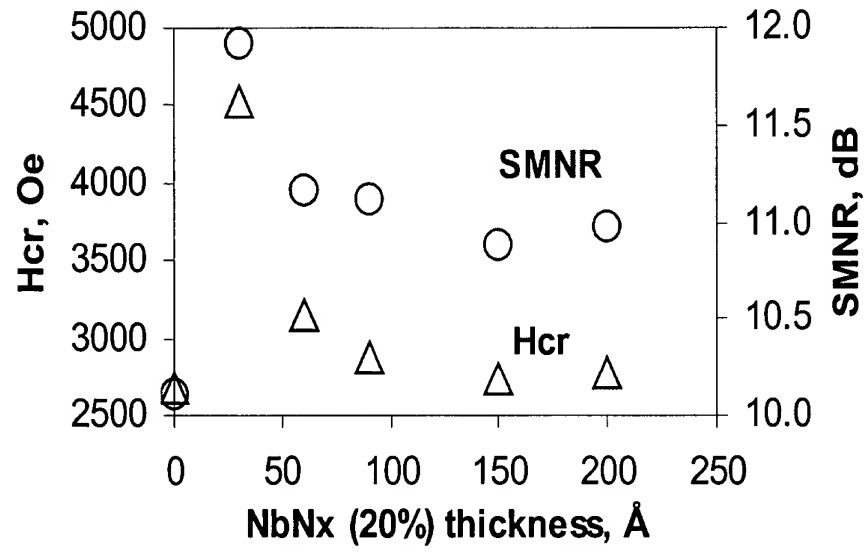


Figure 4

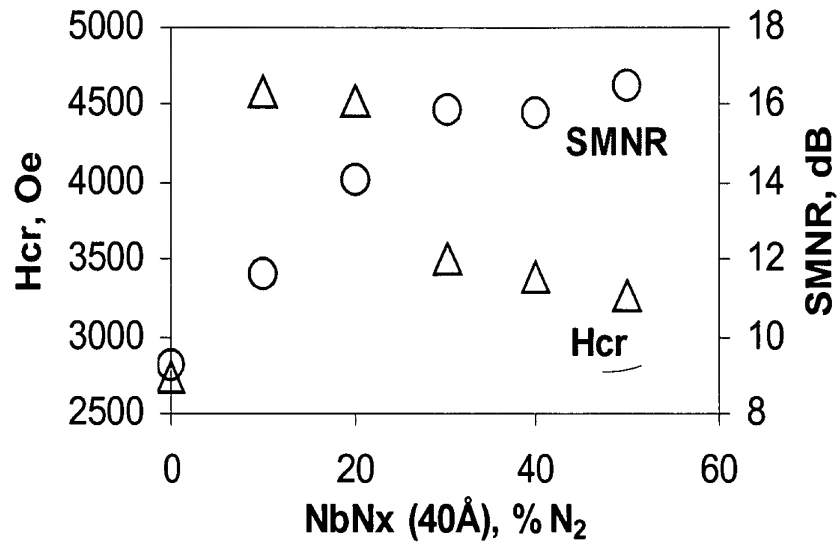


FIG. 4 is a scatter plot showing the relationship between the coercive field (H_{cr} , Oe) and the signal-to-noise ratio (SMNR, dB) as a function of the niobium nitride (NbNx) seed layer thickness (40Å) and the percentage of nitrogen (% N₂). The x-axis represents NbNx (40Å), % N₂, ranging from 0 to 60. The left y-axis represents H_{cr} , Oe, ranging from 2500 to 5000. The right y-axis represents SMNR, dB, ranging from 8 to 18. Two data series are plotted: H_{cr} (represented by triangles) and SMNR (represented by circles). Both H_{cr} and SMNR show a general increasing trend as the NbNx thickness and % N₂ increase.

Figure 5

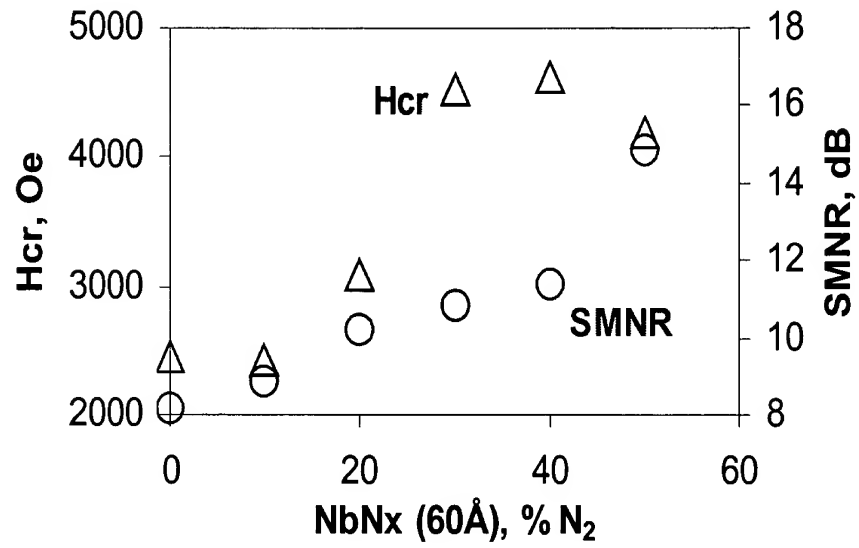
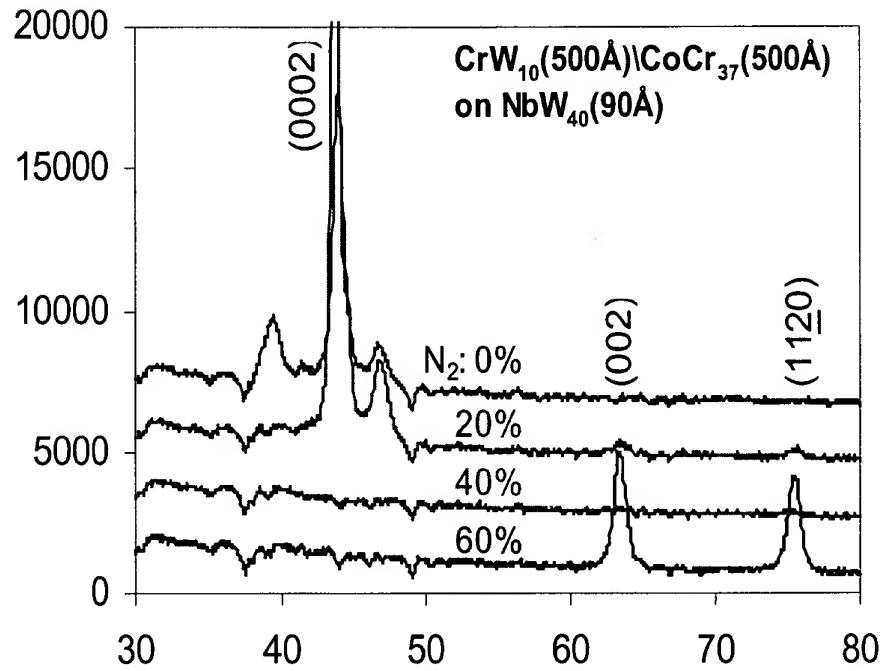


Figure 6



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